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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,305	10/06/2003	Joseph Scott Digangi	4345-35	4161
23117	7590	01/10/2007	EXAMINER	
NIXON & VANDERHYE, PC			TO, TOAN C	
901 NORTH GLEBE ROAD, 11TH FLOOR			ART UNIT	PAPER NUMBER
ARLINGTON, VA 22203			3616	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/678,305	DIGANGI ET AL.	
	Examiner	Art Unit	
	Toan C. To	3616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 October 2006.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 13 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 13 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 06 October 2003 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date: _____
4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date: _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

Allowable Subject Matter

1. The indicated allowability of claim 18 is withdrawn in view of the newly discovered reference(s) to Iwai et al (U.S. 7,032,925). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mizuno (U.S. 6,805,376) in view of Iwai et al (U.S. 7,032,925)

Mizuno discloses a method of generating gas for a device to be inflated or pressurized, comprising: providing a pressure vessel (4) containing a gas under a first predetermined pressure; providing an initiator housing (14) closing one end of the pressure vessel (4) and having an opening at the inner end thereof closed by an initiator rupture disk (18) constructed to rupture at a second predetermined pressure in said initiator housing (14) greater than the first predetermined pressure; providing a micro-gas generator or initiator (16) within the initiator housing (14); providing a manifold (24) closing the other end of the pressure vessel, said manifold (24) having an opening at the inner end thereof closed by a manifold rupture disk (8) constructed to rupture at a third predetermined pressure greater than the first predetermined pressure; and firing

the micro-gas generator or initiator (16) to increase the gas pressure in the initiator housing (14) to a value equal to or exceeding the second predetermined pressure to rupture the initiator rupture disk (18) and create a pressure wave that travels through the pressure vessel (4) to create a localized pressure at the manifold rupture disk (8) that equals or exceeds the third predetermined pressure to rupture the manifold disk (8) and allow flow of gas through the manifold (24) before the gas in said pressure vessel is significantly heated and pressurized by the gas flow from the initiator housing.

Mizuno discloses every method steps of generating gas as discussed above except that the flow of gas through the manifold upon rupture of the manifold rupture disk is at a temperature of less than approximately 21⁰ C.

Iwai et al teaches the invention wherein the flow of gas through the manifold (40) upon rupture of the manifold rupture disk (19) is at a temperature of less than approximately 21⁰ C (see column 7, lines 45-47). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of generating gas of Mizuno by using the teaching of Iwai et al in order to provide cold gas upon actuation of the gas generator such that preventing occupant from injury by burning.

Response to Arguments

Applicant's arguments with respect to the rejection of the claims based on Rink et al have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan C. To whose telephone number is (571) 272-6677. The examiner can normally be reached on Mon-Fri (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (571) 272-6669. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TT^o
January 6, 2007